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Google Professional-Data-Engineer Certification Exam is intended for data engineers, data scientists, and other IT professionals who want to demonstrate their proficiency in Google Cloud Platform data engineering technologies. Professional-Data-Engineer Exam covers topics such as design and implementation of data processing systems, building and maintaining databases, data analysis and visualization, and machine learning implementation.

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Google Certified Professional Data Engineer Exam Sample Questions (Q238-Q243):

NEW QUESTION # 238

You are a BigQuery admin supporting a team of data consumers who run ad hoc queries and downstream reporting in tools such as Looker. All data and users are combined under a single organizational project. You recently noticed some slowness in query results and want to troubleshoot where the slowdowns are occurring. You think that there might be some job queuing or slot contention occurring as users run jobs, which slows down access to results. You need to investigate the query job information and determine where performance is being affected. What should you do?

- A. Use available administrative resource charts to determine how slots are being used and how jobs are performing over time. Run a query on the INFORMATION_SCHEMA to review query performance.
- B. Use Cloud Logging to determine if any users or downstream consumers are changing or deleting access grants on tagged resources.
- C. Use slot reservations for your project to ensure that you have enough query processing capacity and are able to allocate available slots to the slower queries.
- D. Use Cloud Monitoring to view BigQuery metrics and set up alerts that let you know when a certain percentage of slots were used.

Answer: A

Explanation:

To troubleshoot query performance issues related to job queuing or slot contention in BigQuery, using administrative resource charts along with querying the INFORMATION_SCHEMA is the best approach. Here's why option D is the best choice:

Administrative Resource Charts:

BigQuery provides detailed resource charts that show slot usage and job performance over time. These charts help identify patterns of slot contention and peak usage times.

INFORMATION_SCHEMA Queries:

The INFORMATION_SCHEMA tables in BigQuery provide detailed metadata about query jobs, including execution times, slots consumed, and other performance metrics.

Running queries on INFORMATION_SCHEMA allows you to pinpoint specific jobs causing contention and analyze their performance characteristics.

Comprehensive Analysis:

Combining administrative resource charts with detailed queries on INFORMATION_SCHEMA provides a holistic view of the system's performance.

This approach enables you to identify and address the root causes of performance issues, whether they are due to slot contention, inefficient queries, or other factors.

Steps to Implement:

Access Administrative Resource Charts:

Use the Google Cloud Console to view BigQuery's administrative resource charts. These charts provide insights into slot utilization and job performance metrics over time.

Run INFORMATION_SCHEMA Queries:

Execute queries on BigQuery's INFORMATION_SCHEMA to gather detailed information about job performance. For example:

```
SELECT
creation_time,
job_id,
user_email,
query,
total_slot_ms / 1000 AS slot_seconds,
total_bytes_processed / (1024 * 1024 * 1024) AS processed_gb,
total_bytes_billed / (1024 * 1024 * 1024) AS billed_gb
FROM
`region-us`.INFORMATION_SCHEMA.JOBS_BY_PROJECT
WHERE
creation_time > TIMESTAMP_SUB(CURRENT_TIMESTAMP(), INTERVAL 1 DAY)
AND state = 'DONE'
ORDER BY
slot_seconds DESC
LIMIT 100;
```

Analyze and Optimize:

Use the information gathered to identify bottlenecks, optimize queries, and adjust resource allocations as needed to improve performance.

Reference:

Monitoring BigQuery Slots

NEW QUESTION # 239

You need to choose a database to store time series CPU and memory usage for millions of computers. You need to store this data in one-second interval samples. Analysts will be performing real-time, ad hoc analytics against the database. You want to avoid being charged for every query executed and ensure that the schema design will allow for future growth of the dataset. Which database and data model should you choose?

- A. Create a wide table in Cloud Bigtable with a row key that combines the computer identifier with the sample time at each minute, and combine the values for each second as column data.
- B. Create a wide table in BigQuery, create a column for the sample value at each second, and update the row with the interval for each second
- C. Create a narrow table in Cloud Bigtable with a row key that combines the Computer Engine computer identifier with the sample time at each second
- D. Create a table in BigQuery, and append the new samples for CPU and memory to the table

Answer: A

NEW QUESTION # 240

You work for a shipping company that uses handheld scanners to read shipping labels. Your company has strict data privacy standards that require scanners to only transmit recipients' personally identifiable information (PII) to analytics systems, which violates user privacy rules. You want to quickly build a scalable solution using cloud-native managed services to prevent exposure of PII to the analytics systems. What should you do?

- A. Use Stackdriver logging to analyze the data passed through the total pipeline to identify transactions that may contain sensitive information.
- B. Create an authorized view in BigQuery to restrict access to tables with sensitive data.
- C. Install a third-party data validation tool on Compute Engine virtual machines to check the incoming data for sensitive information.
- D. Build a Cloud Function that reads the topics and makes a call to the Cloud Data Loss Prevention API. Use the tagging and confidence levels to either pass or quarantine the data in a bucket for review.

Answer: B

NEW QUESTION # 241

You are migrating your data warehouse to BigQuery. You have migrated all of your data into tables in a dataset. Multiple users from your organization will be using the data. They should only see certain tables based on their team membership. How should you set user permissions?

- A. Create authorized views for each team in datasets created for each team. Assign the authorized views data viewer access to the dataset in which the data resides. Assign the users/groups data viewer access to the datasets in which the authorized views reside
- B. Create authorized views for each team in the same dataset in which the data resides, and assign the users/groups data viewer access to the authorized views
- C. Create SQL views for each team in the same dataset in which the data resides, and assign the users/groups data viewer access to the SQL views
- D. Assign the users/groups data viewer access at the table level for each table

Answer: B

NEW QUESTION # 242

Which of the following are examples of hyperparameters? (Select 2 answers.)

- A. Number of nodes in each hidden layer
- B. Biases

- C. Weights
- D. Number of hidden layers

Answer: A,D

Explanation:

If model parameters are variables that get adjusted by training with existing data, your hyperparameters are the variables about the training process itself. For example, part of setting up a deep neural network is deciding how many "hidden" layers of nodes to use between the input layer and the output layer, as well as how many nodes each layer should use. These variables are not directly related to the training data at all. They are configuration variables. Another difference is that parameters change during a training job, while the hyperparameters are usually constant during a job.

Weights and biases are variables that get adjusted during the training process, so they are not hyperparameters.

Reference: <https://cloud.google.com/ml-engine/docs/hyperparameter-tuning-overview>

NEW QUESTION # 243

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